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We claim:

1. A composition comprising:
a therapeutic agent comprising hydrothermally synthesized 90-yttrium
5 phosphate particles; and
a therapeutic agent carrier comprising fibrin, wherein the therapeutic agent is
mixed with the therapeutic agent carrier.
2. The composition of claim 1, wherein the 90-yttrium phosphate particles
10 have a mean diameter of from about 0.3 to about 3 μm .
3. The composition of claim 1, wherein the 90-yttrium phosphate particles
have a mean diameter of from about 0.3 to about 0.8 μm .
- 15 4. The composition of claim 1, wherein the 90-yttrium phosphate particles
have an average diameter of from about 0.3 to about 0.8 μm .
5. The composition of claim 1, wherein a substantial amount of the 90-
yttrium phosphate particles are substantially spherical.
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6. The composition of claim 2, wherein the therapeutic agent comprises a
colloid, wherein the 90-yttrium phosphate particles comprise a disperse phase of the
colloid.
- 25 7. The composition of claim 6, wherein the therapeutic agent carrier further
comprises a stimulus sensitive gelling polymer.

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8. The composition of claim 7, wherein the stimulus sensitive gelling polymer is a thermogelling biodegradable polymer comprising a polyethylene glycol block and a biodegradable polyester block, wherein said blocks are linked to form a polymer of a general structure satisfying the formula $A_n(B)$, wherein n is equal to or greater than 2, A is selected from the group consisting of a polyethylene glycol block and a biodegradable polyester block, B is selected from the group consisting of a polyethylene glycol block and a biodegradable polyester block, and A is different than B.

9. The composition of claim 7, wherein the stimulus sensitive gelling polymer is a thermogelling biodegradable polymer carrier comprising a biocompatible polymer block and a biodegradable polypeptide block, wherein the biocompatible polymer and the polypeptide blocks are linked to form a polymer of a general structure satisfying the formula C_nD_m , wherein n is equal to or greater than 1, m is equal to or greater than 1, C is a biodegradable polypeptide block, and D is a biocompatible soluble polymer having a chain length such that if D is not biodegradable, D may be eliminated through a glomeruli filtration system.

10. A composition comprising,
a therapeutic agent carrier comprising a thermogelling, biodegradable, polymer comprising a polyethylene glycol block and a biodegradable polyester block, wherein said blocks are linked to form a polymer of a general structure satisfying the formula $A_n(B)$, wherein n is equal to or greater than 2, A is selected from the group consisting of a polyethylene glycol block and a biodegradable polyester block, B is selected from the group consisting of a polyethylene glycol block and a biodegradable polyester block, and A is different than B; and

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a therapeutic agent comprising hydrothermally synthesized 90-yttrium phosphate particles, wherein the therapeutic agent is mixed with the therapeutic agent carrier.

5 11. The composition of claim 10, wherein n is between 3 and 10.

12. The composition of claim 11, wherein the polyethylene glycol has an average molecular weight of between 200 and 20,000.

10 13. The composition of claim 10, wherein the 90-yttrium phosphate particles have a mean diameter of from about 0.3 to about 3 μm .

14. The composition of claim 13, wherein the 90-yttrium phosphate particles have a mean diameter of from about 0.3 to about 0.8 μm .

15 15. The composition of claim 10, wherein the 90-yttrium phosphate particles have an average diameter of from about 0.3 to about 0.8 μm .

20 16. The composition of claim 14, wherein a substantial amount of the 90-yttrium phosphate particles are substantially spherical.

17. The composition of claim 14, wherein about 40% of the 90-yttrium phosphate particles are substantially spherical.

25 18. The composition of claim 13, wherein the therapeutic agent comprises a colloid, wherein the 90-yttrium phosphate particles comprise a disperse phase of the colloid.

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19. A composition comprising:
a therapeutic agent carrier comprising a thermogelling, biodegradable, polymer carrier comprising a biocompatible polymer block and a biodegradable polypeptide block, wherein the biocompatible polymer and the polypeptide blocks are linked to
5 form a polymer of a general structure satisfying the formula C_nD_m , wherein n is equal to or greater than 1, m is equal to or greater than 1, C is a biodegradable polypeptide block, D is a biocompatible soluble polymer having a chain length such that if D is not biodegradable, D may be eliminated through a glomeruli filtration system; and
a therapeutic agent comprising hydrothermally synthesized 90-yttrium
10 phosphate particles, wherein the therapeutic agent is mixed with the therapeutic agent carrier.
20. The composition of claim 19, wherein D comprises a polyethylene glycol block.
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21. The composition of claim 20, wherein the polypeptide block has an average molecular weight of from about 300 to about 30,000.
22. The composition of claim 19, wherein the 90-yttrium phosphate particles
20 have a mean diameter of from about 0.3 to about 3 μm .
23. The composition of claim 22, wherein the 90-yttrium phosphate particles have a mean diameter of from about 0.3 to about 0.8 μm .
24. The composition of claim 22, wherein a substantial amount of the 90-yttrium phosphate particles are substantially spherical.
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25. The composition of claim 22, wherein the therapeutic agent comprises a colloid, wherein the 90-yttrium phosphate particles comprise a disperse phase of the colloid.

5 26. A method for making a therapeutic agent carrier comprising:
 forming a therapeutic agent carrier comprising a stimulus-sensitive gelling
polymer, fibrin, or combinations thereof; and
 mixing a hydrothermally synthesized radioactive therapeutic agent with the
therapeutic agent carrier.

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27. The method of claim 26, wherein hydrothermally synthesizing the radioactive therapeutic agent comprises hydrothermally synthesizing a 90-yttrium phosphate colloid by reacting a yttrium source, EDTA, and a phosphate source.

15 28. The method of claim 27, wherein the 90-yttrium source, EDTA, and phosphate source are reacted in an acidic environment.

29. The method of claim 28, wherein the 90-yttrium source, EDTA, and phosphate source are reacted at a pH of from about 6 to about 6.5.

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30. The method of claim 28, wherein the 90-yttrium source, EDTA, and phosphate source are reacted at a temperature of at least about 150°C.

25 31. The method of claim 30, wherein the 90-yttrium source, EDTA, and phosphate source are reacted for at least about 20 hours.

32. The method of claim 27, wherein the yttrium source comprises $^{90}\text{YCl}_3$.

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33. The method of claim 32, wherein the phosphate source comprises NaH_2PO_4 .

34. The method of claim 27, wherein the 90-yttrium source, EDTA, and phosphate source are combined in a yttrium source:EDTA:phosphate source ratio of about 1:1:6.

35. A method of treating cancer in a subject comprising:
resecting a tumor from a subject, wherein resection of the tumor creates a tumor removal site; and
applying a therapeutic agent carrier composition to intact tissue at the tumor resection site in an amount effective to destroy vestigial cancerous cells, wherein the therapeutic agent carrier composition comprises a hydrothermally synthesized 90-yttrium phosphate colloid and a therapeutic agent carrier, wherein the therapeutic agent carrier is a) fibrin, b) a thermogelling, biodegradable polymer carrier comprising a polyethylene glycol block and a biodegradable polyester block, wherein said blocks are linked to form a polymer of a general structure satisfying the formula $A_n(B)$, wherein n is equal to or greater than 2, and A is selected from the group consisting of a polyethylene glycol block and a biodegradable polyester block, B is selected from the group consisting of a polyethylene glycol block and a biodegradable polyester block, and A is different than B , c) a thermogelling, biodegradable polymer carrier comprising a biocompatible polymer block and a biodegradable polypeptide block, wherein the biocompatible polymer and the polypeptide blocks are linked to form a polymer of a general structure satisfying the formula C_nD_m , wherein n is equal to or greater than 1, m is equal to or greater than 1, C is a biodegradable polypeptide block, D is a biocompatible soluble polymer having a chain length such that if D is not biodegradable, D may be eliminated through a glomeruli filtration system, or d) combinations thereof.